

UNDER CONSTRUCTION: BUILDING RESEARCH DATA SERVICES AT UNCG



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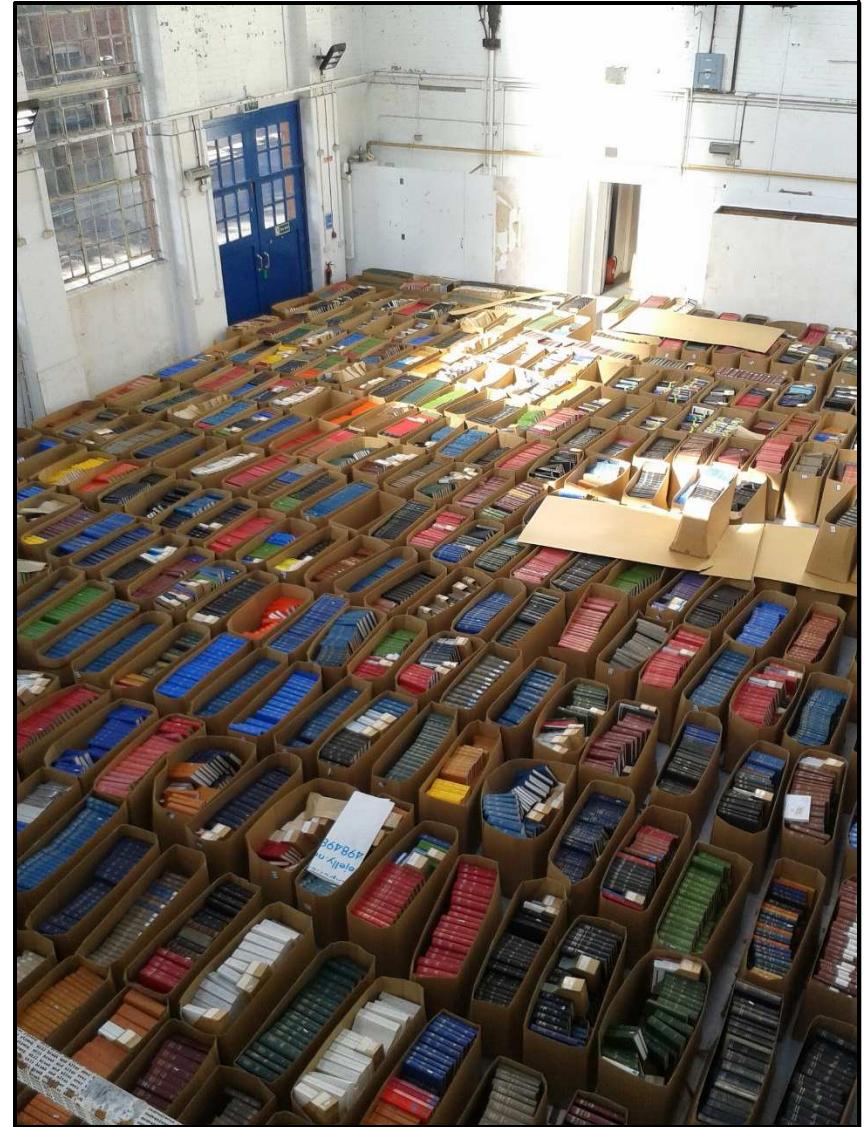


THE UNIVERSITY OF NORTH CAROLINA AT
GREENSBORO

Empirical Librarians Conference, NC A&T State University, Greensboro, NC, 2/24/2017.

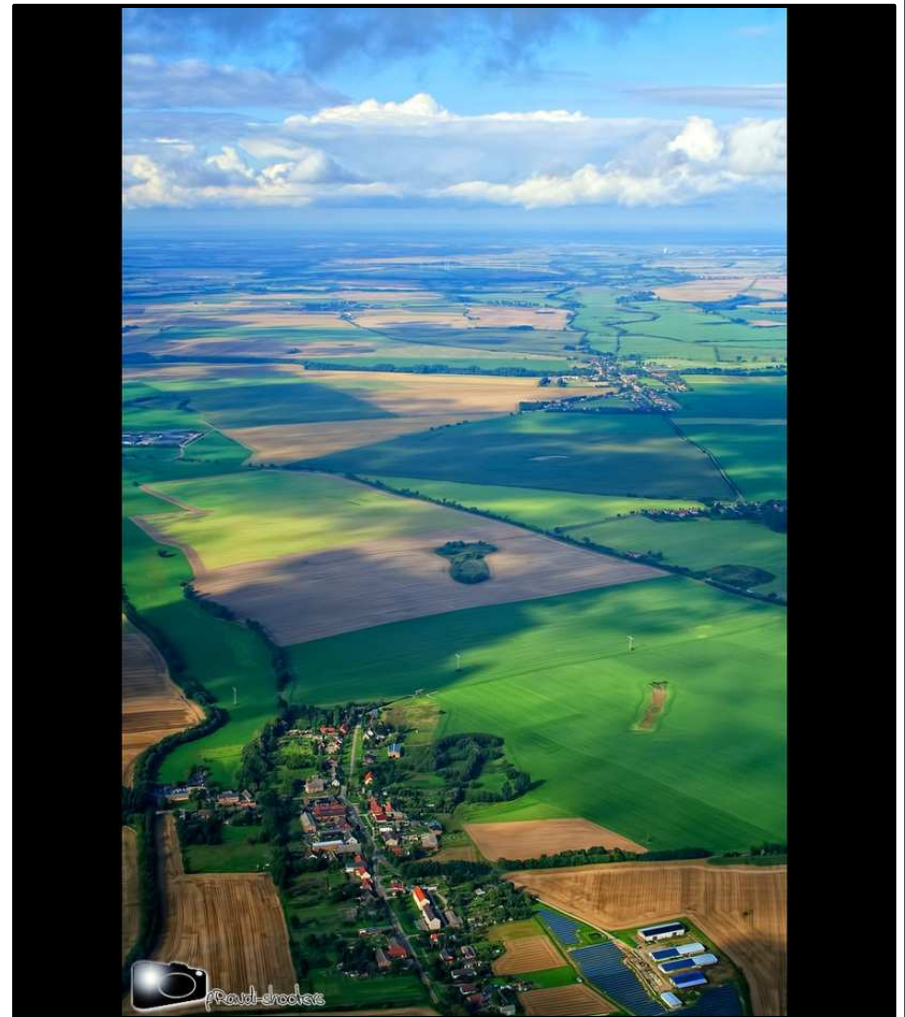
Before we get started:

How many of you work in institutions that are currently providing research data management (RDM) support services for users?



Overview

- UNCG and the University Libraries
- UNCG's research data support service model
- Outreach efforts
- Institutional repository/Dataverse integration
- Challenges, value, future directions



https://www.flickr.com/photos/canon_duo/4950617867 (CC BY-ND 2.0)

UNC Greensboro

- Public, four-year research university
- One of seventeen campuses in the UNC System
- FTE is 19,000 students



UNCG University Libraries

- Collections:
 - 2.8 million items (books, govdocs, and microforms)
 - 42,666 electronic journals
 - 250+ electronic databases
- Collection strengths:
 - Local and regional history
 - Music/performing arts
 - University history
 - Women's history
- Staff:
 - Approximately 90 FTE
 - 30 tenured or tenure-track faculty



We build things



UNCG BORN-DIGITAL RECORDS MANAGEMENT



WT Cox Subscriptions Acquires Journal Finder From UNCG

WT Cox Subscriptions (www.wtcox.com) has entered into an agreement to purchase Journal Finder from The University of North Carolina Greensboro (UNCG; <http://journalfinder.uncg.edu/uncg>). Journal Finder, the first OpenURL Link Resolver to go into production in the U.S., gives library patrons easy access to the electronic resources to which a library subscribes. Journal Finder was created and designed and has been maintained by the Electronic Resources and Information Technology staff of UNCG.

Why research data management? And why the libraries?

- The Libraries are already in the business of preserving, providing access, and supporting faculty research.
- Pre-existing data discovery support.
- Culture of support for open access, desire to extend those offerings.
- Funder requirements (NSF, NIH, and other granting agencies).
- Demonstrated need on campus.
 - Survey results
 - Requests from faculty



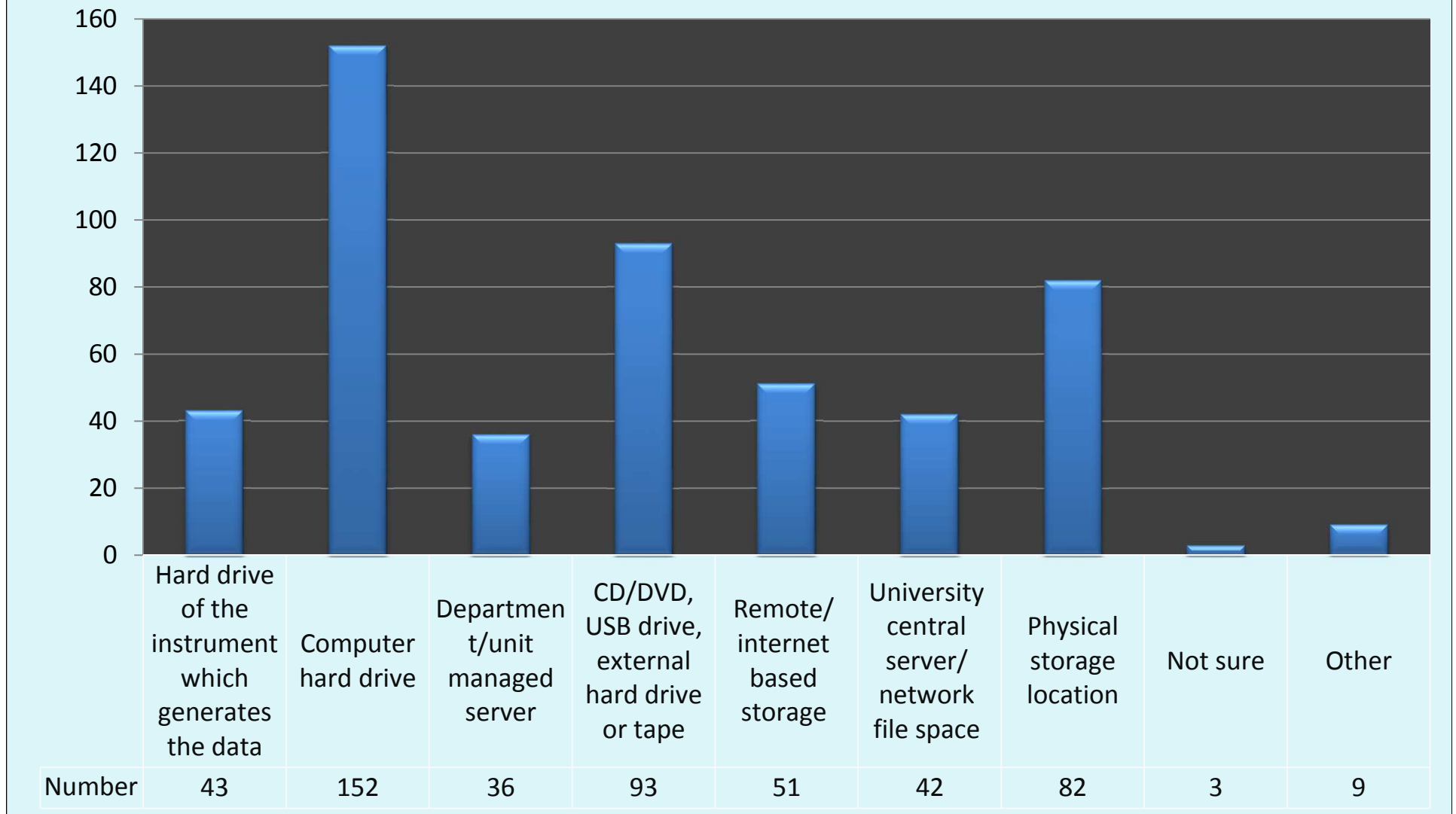
Secondary data discovery

- New Data Services & Government Information Librarian position created in 2007.
- Focus on supporting data discovery primarily for government data, data archives, and subscription sources.



U.S. Census Bureau

Locations for Storing Data



From UNCG Faculty Research Data Support Needs Survey report,
October 2013

We're part of a bigger picture

Other partners in campus research data management services:

- Office of Sponsored Programs
- Information Technology Services
- Departmental programs
 - School of Health and Human Sciences
 - School of Nursing



UNCG

What do we do?

- Educate about data and data management best practices.
- Assist in the creation of data management plans.
- Provide an option for sharing and archiving data (NC DOCKS/ Odum Institute partnership).
- Connect researchers to other (non-library) services.

[University Libraries](#) / [Research Guides](#) / [Data Services: Research Data Management](#) / [Home](#)

Data Services: Research Data Management: Home

Guide to assist with the research data management process

[Home](#)

[Why Data Management?](#)

[Creating a data management plan](#)

[Data storage](#)

[Sharing & archiving your data](#)

[Finding Data](#)

<http://uncg.libguides.com/RDM>

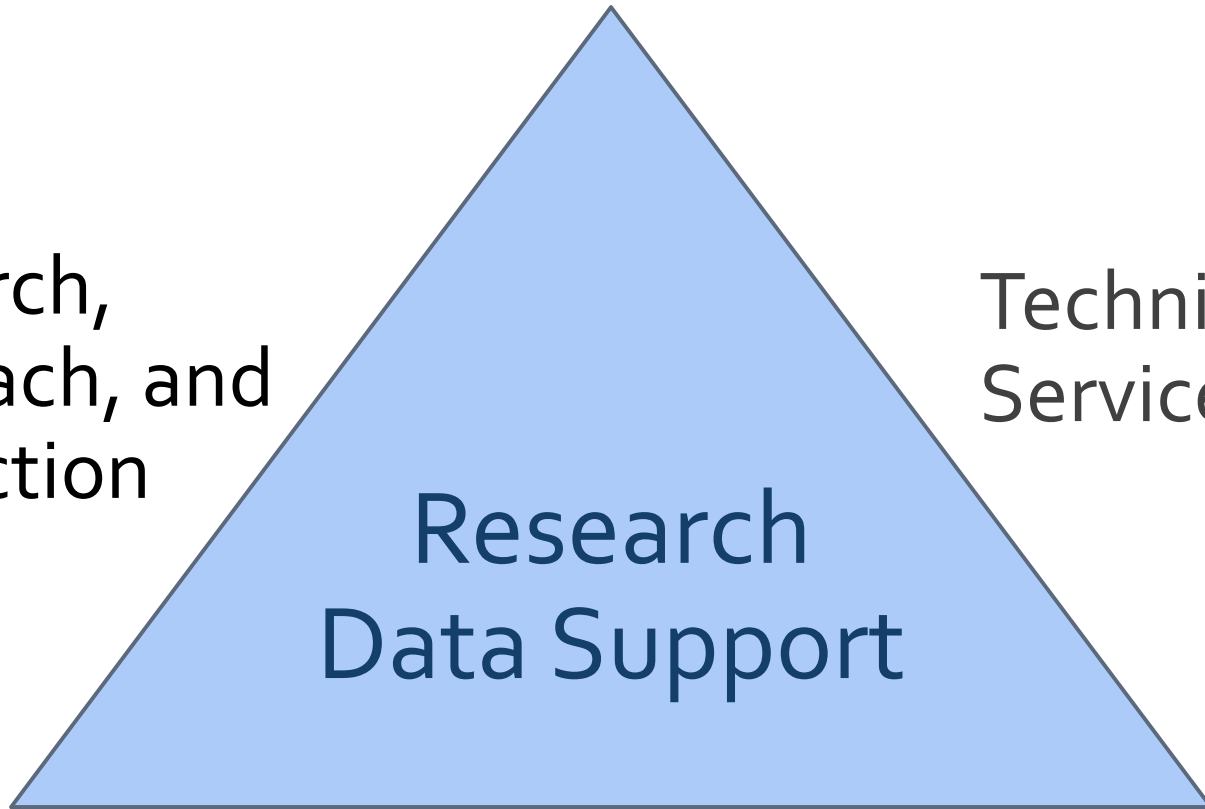
Library roles

Research,
Outreach, and
Instruction

Technical
Services

Research
Data Support

Electronic Resources and Information
Technology



Research, Outreach, and Instruction (ROI)

- Serves as connection to the faculty and research offices regarding data needs.
- Provides training to graduate students and faculty on RDM best practices.
- Provides assistance with data management plans or archiving options as requested.
- Works within the liaison team structure to support researchers in every discipline.

A teal-colored triangle pointing upwards, located in the bottom right corner of the slide. It contains the text "Research Data Support" in white.

Research
Data
Support

Technical Services

- Sets metadata policies and creates documentation.
- Manages item and metadata loading in NC DOCKS (IR) and Dataverse.
- Provides assistance with research data questions.
- Targeted outreach to faculty.
- Training, training, training.



Electronic Resources and Information Technology (ERIT)

- Manages NC DOCKS server, develops and supports NC DOCKS product.
- Consults on requests involving local technology support.



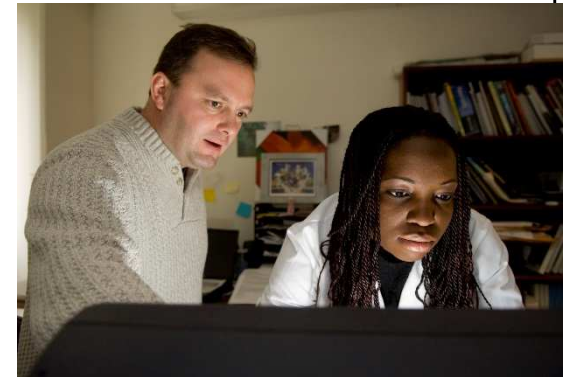
Research
Data
Support

Think – Pair – Share

- Is RDM support a cross-departmental effort in your institution, or is it centralized?
- Are there other campus partners (outside of the library) that you do or could collaborate with?

Whom do we support?

Students, faculty, and staff.



Whom do we support?

Institutional partners



Research data management task force

- Personnel:
 - Associate Dean for Public Services
 - Assistant Dean for Electronic Resources and Information Technology
 - Health Sciences Reference Librarian
 - Science Liaison Librarian
 - Data Services and Government Information Librarian
 - Metadata Cataloger
- Develop a plan for supporting RDM in the library

Targeted outreach

- Open Access Policy initiative
- Departmental meetings
- Outreach to research offices, Research Advisory Council, and Office of Research Integrity
- Research data management best practices workshops
- “Responsible Conduct of Research: Taking the High Road to Better Data” presentation series

Open access policy initiative

Open Access:
Sharing your scholarship

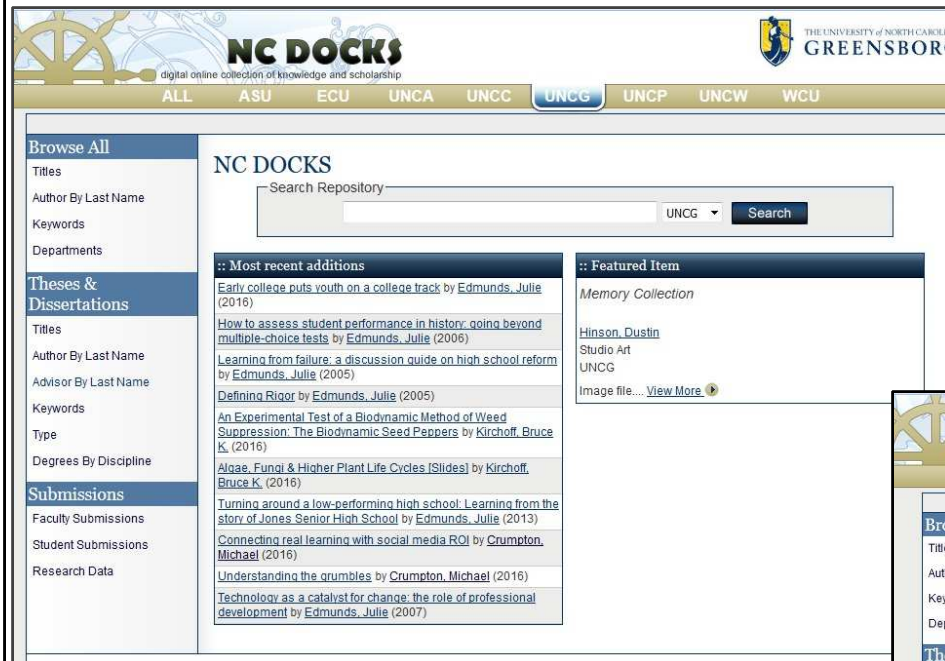


What about research data?

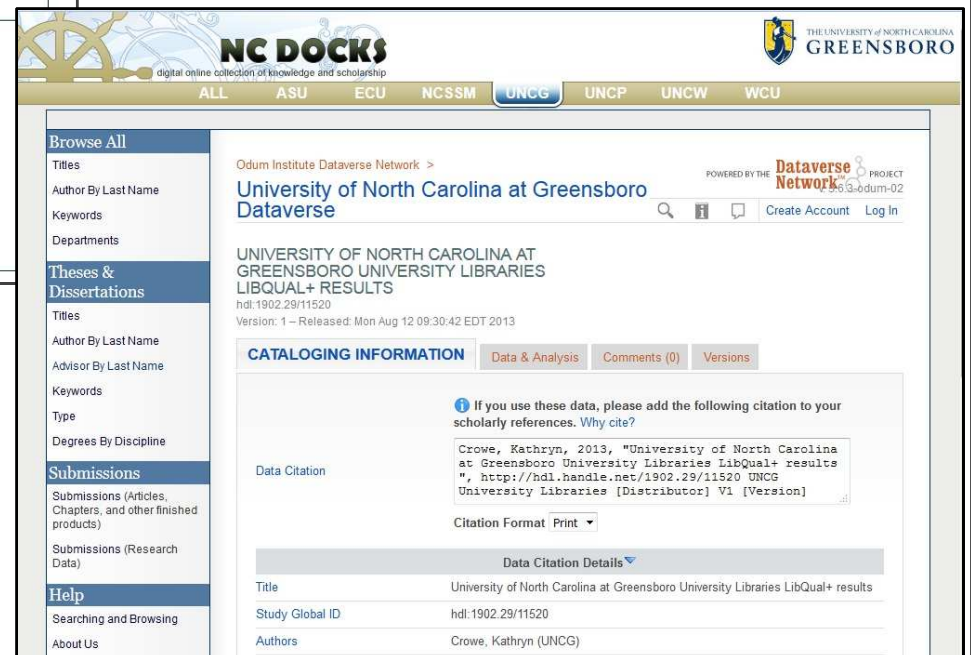
- Data management planning resources
- Research data hosting (through a partnership with the Odum Dataverse at UNC Chapel Hill)
- There are other options - just ask to learn more!



Outreach to campus departments and research groups



The screenshot shows the NC DOCKS homepage. At the top, there is a navigation bar with the NC DOCKS logo and the text "digital online collection of knowledge and scholarship". Below this, there is a search bar with a dropdown menu set to "UNCG" and a "Search" button. The left sidebar contains a "Browse All" section with links for Titles, Author By Last Name, Keywords, and Departments. Below this is a "Theses & Dissertations" section with links for Titles, Author By Last Name, Advisor By Last Name, Keywords, Type, and Degrees By Discipline. The main content area is titled "NC DOCKS" and features a "Most recent additions" section with a list of recent uploads, including "Early college puts youth on a college track" by Edmunds, Julie (2016) and "How to assess student performance in history: going beyond multiple-choice tests" by Edmunds, Julie (2006). There is also a "Featured Item" section titled "Memory Collection" by Hinson, Dustin, Studio Art, UNCG.



The screenshot shows the University of North Carolina at Greensboro Dataverse Network page. At the top, there is a navigation bar with the NC DOCKS logo and the text "digital online collection of knowledge and scholarship". Below this, there is a search bar with a dropdown menu set to "UNCG" and a "Search" button. The left sidebar contains a "Browse All" section with links for Titles, Author By Last Name, Keywords, and Departments. Below this is a "Theses & Dissertations" section with links for Titles, Author By Last Name, Advisor By Last Name, Keywords, Type, and Degrees By Discipline. The main content area is titled "University of North Carolina at Greensboro Dataverse" and features a "Cataloging Information" section with a table of data citation details. The table includes fields for Title, Study Global ID, and Authors, with values for "University of North Carolina at Greensboro University Libraries LibQual+ results", "hdl:1902.29/11520", and "Crowe, Kathryn (UNCG)" respectively. There is also a "Data Citation" section with a text box for citation information and a "Citation Format" dropdown menu.

RDM workshops



Research Data @ UNCG Univ. Libraries

Lynda Kellam, Data Services Librarian, lmkellam@uncg.edu

“Responsible Conduct of Research”

RESEARCH INTEGRITY

[HOME](#)[ABOUT](#)[RESPONSIBLE CONDUCT OF RESEARCH \(RCR\)](#)[TRAINING](#)[REVIEW](#)

RESPONSIBLE CONDUCT OF RESEARCH

Responsible Conduct of Research (RCR) involves shared responsibility for the responsible conduct of research among the institutional administration, the research oversight committees and the researchers. An effective RCR program includes comprehensive institutional policies and procedures for the conduct and review of research, coordination of all units (administrative offices, oversight committees, etc.) that impact the responsible conduct of research, systematic education programs in RCR and systematic quality assurance/quality improvement activities.

Responsible conduct of research (RCR) includes:

- Conflict of interest (personal, professional, financial)
- Policies regarding human subjects, live vertebrate animal subjects in research, and safe laboratory practices
- Mentor/mentee responsibilities and relationships
- Collaborative research, including collaborations with industry
- Peer review
- Data acquisition and laboratory tools; management, sharing and ownership
- Research misconduct and policies for handling misconduct
- Responsible authorship and publication
- The scientist as a responsible member of society, contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research

The UNCG Office of Research Integrity (ORI) offers training to meet the regulatory requirements of both the National Institutes of Health and the National Science Foundation. Additionally, this program meets the institutional goal of developing a university-wide approach to meeting the ethical standards that it was founded upon.

Think – Pair – Share

- What activities have you done or participated in as RDM outreach efforts at your institution?
- What areas of need have you seen among student/faculty populations regarding RDM?

Types of requests

- Informational – **“How can you help me?”**
 - What services do you provide in this area?
 - Will you look at my data management plan?
 - What repository should I use?
- Technical support – **“This isn’t working.”**
 - Why won’t Dataverse load my data set?
 - Why isn’t this file type displaying?
- Training – **“I need help doing this.”**
 - How do I write a data management plan?
 - How do I get my data into Dataverse?

Questions we ask: DMP creation stage

- What type of data will be produced?
- What standards will be used for documentation and metadata?
- What steps will be taken to protect privacy, security, confidentiality, intellectual property, or other rights?
- If you allow others to reuse your data, how will the data be accessed and shared?
- How will the data be archived for preservation and long-term access?

<http://tinyurl.com/UNCG-RDM>

A note on DMPs



- RDM LibGuide offers general DMP information and tips
- We offer access to DMPTool, but we are not a partner, so we don't offer templates for researchers
- No formal requirement for researchers to bring DMPs to the library

<http://uncg.libguides.com/RDM/CreateDMP>

Questions we ask:

Researchers who already have data

- What field is the researcher working in?
- What format is the data in?
- What is the size of the dataset?
- Is there existing metadata? Is there a codebook?
- Are there privacy concerns with the data, such as PII?

UNCG's research data partnership



NC DOCKS at a glance

- Open access
- Home-grown system
- Collaborative partnership bringing together eight UNC system schools
- Faculty, staff, and student works
- Articles, presentation slides, ETDs, audiovisual materials, and more
- Metadata and document entry handled by library personnel
- Discovery via Google



Browse All

Titles
Author By Last Name
Keywords
Departments

Theses & Dissertations

Titles
Author By Last Name
Advisor By Last Name
Keywords
Type
Degrees By Discipline

Submissions

Faculty Submissions
Student Submissions
Research Data

NC DOCKS

Search Repository

UNCG ▼

Search

:: Most recent additions

[Behavioral and psychological involvement of online video gamers: Building blocks or building walls to socialization?](#) by [Hickerson, Benjamin](#) (2013)

[Subtalar Pronation Does Not Influence Impact Forces or Rate of Loading During a Single-Leg Landing](#) by [Shultz, Sandra J.](#) (2003)

[Balance Recovers Within 20 Minutes After Exertion as Measured by the Balance Error Scoring System](#) by [Shultz, Sandra J.](#) (2004)

[Functional Fatigue Decreases 3-Dimensional Multijoint Position Reproduction Acuity in the Overhead-Throwing Athlete](#) by [Shultz, Sandra J.](#) (2004)

[Effects of Pronated and Supinated Foot Postures on Static and Dynamic Postural Stability](#) by [Shultz, Sandra J.](#) (2005)

[Triple-Hop Distance as a Valid Predictor of Lower Limb Strength and Power](#) by [Schmitz, Randy J.](#) and [Shultz, Sandra J.](#) (2008)

[Mechanisms of Noncontact Anterior Cruciate Ligament Injury](#) by [Shultz, Sandra J.](#) (2008)

[Evaluating the Effectiveness of Corporate Sponsorships at a Minor League Baseball Park](#) by [Hickerson, Benjamin](#) (2013)

[Competitive Target Advertising and Consumer Data Sharing](#) by [Zhao, Xia](#) (2012)

[Opportunities for youth physical activity promotion: An](#)

:: Featured Item

Innovative Research Exploring the Effects of Physical Activity and Genetics on Cognitive Performance in Community-Based Older Adults

[Henrich, Vincent](#)

Professor

Biology

UNCG

Physical activity is predictive of better cognitive performance and lower risk of Alzheimer's disease (AD). The apolipoprotein E gene (APOE) is a susceptibility gene for AD with the e4 allele being as... [View More](#)

<http://libres.uncg.edu/ir/>

Browse All

Titles

Author By Last Name

Keywords

Departments

Theses & Dissertations

Titles

Author By Last Name

Advisor By Last Name

Keywords

Type

Degrees By Discipline

Submissions

Faculty Submissions

Student Submissions

Research Data

Fossil GPS

UNCG Author/Contributor (non-UNCG co-authors, if there are any, appear on document)

[Robert Anemone](#), Professor and Department Head (Creator)

Institution

[The University of North Carolina at Greensboro \(UNCG\)](#)

Web Site: <http://library.uncg.edu/>

Abstract: The article focuses on paleontology and discusses how luck has played a big role in many of the world's great fossil discoveries. It also discusses a new technique that improves the odds of finding ancient bones. It reports on the use of modern computer models that look for hidden patterns in satellite images and generate maps of fossils sites, helping fossil hunters narrow their search.

[Fossil GPS](#)



PDF (Portable Document Format)

36 KB

Created on 5/5/2015

Views: 12

Additional Information

Publication

Scientific American, 310(5), 46-51

Language: English

Date: 2014

Keywords

[Paleontology](#), [Computer simulation](#), [Remote-sensing images](#), [Fossils](#), [Paleoarchaeology](#)

<http://libres.uncg.edu/ir/uncg/listing.aspx?styp=ti&id=17950>

Browse All

Titles

Author By Last Name

Keywords

Departments

Theses & Dissertations

Titles

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Keywords

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Degrees By Discipline

Submissions

Faculty Submissions

Student Submissions

Research Data

University of North Carolina at Greensboro University Libraries LibQual+ results

UNCG Author/Contributor (non-UNCG co-authors, if there are any, appear on document)

Kathryn Crowe, Associate Dean for Public Services (Creator)

Institution

The University of North Carolina at Greensboro (UNCG)

Web Site: <http://library.uncg.edu/>

Abstract: This LibQual+ library survey data was collected by the Association of Research Libraries (ARL) for the University Libraries at the University of North Carolina at Greensboro. Survey respondents were students, faculty, and staff at the University of North Carolina at Greensboro. This data was collected from October 15, 2012 to November 10, 2012. This data set and its associated documentation are available for download. To view and download the file, follow the link below and choose the "Data & Analysis" tab.

Link to data and documentation

<http://hdl.handle.net/1902.29/11520>

Additional Information

Publication

Language: English

Date: 2013

Keywords

Library surveys, Library assessment, gap analysis surveys, Library service quality, Academic library assessment

This item requires:

<http://libres.uncg.edu/ir/uncg/listing.aspx?styp=ti&id=14875>



University of North Carolina at Greensboro Dataverse (NC DOCKS)

UNC Dataverse > NC DOCKS Dataverse > University of North Carolina at Greensboro Dataverse >

University of North Carolina at Greensboro University Libraries LibQual+ results

Metrics

10 Downloads



University of North Carolina at Greensboro University Libraries LibQual+ results

Crowe, Kathryn, 2013, "University of North Carolina at Greensboro University Libraries LibQual+ results", hdl:1902.29/11520, UNC Dataverse, V1

Cite Data ▾

 Learn about Data Citation Standards.

Keyword

Library surveys, Library assessment, gap analysis surveys, Library service quality, Academic library assessment

Files

Metadata

Terms

Versions

Search this dataset...

 Find

3 Files

 Download

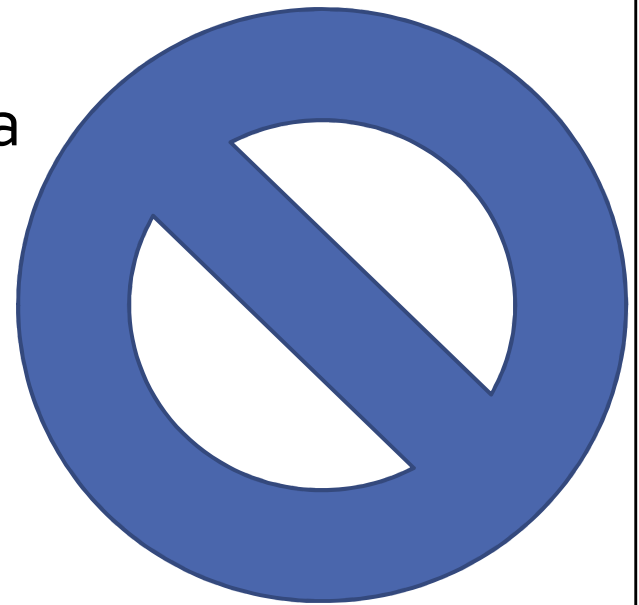
<http://arc.irss.unc.edu/dvn/dv/UNCG/faces/study/StudyPage.xhtml?globalId=hdl:1902.29/11520>

NC DOCKS/Dataverse process

- Researcher contacts liaison librarian.
- Liaison librarian explains our services or contacts DS Librarian.
- Liaison librarian contacts Coordinator of Metadata Services.
- Further communications with researcher, via email or in-person.
- Coordinator of Metadata Services and/or liaison librarian assist researcher in loading materials into Dataverse and completing metadata entry.
- Coordinator of Metadata Services completes associated metadata record in NC DOCKS.

What we don't do

- Mandate library review of all DMPs
- Accept legal responsibility for data deposited in NC DOCKS/Dataverse
- Know the researcher's data/research area as well as they do
- Provide curation services
- Store private/confidential/sensitive data
 - Personal Identify Information
 - Electronic protected health information (ePHI/HIPAA data)
- Maintain restricted data access contracts





TERMS OF USE

The User Submissions do not contain information that could, directly or indirectly, identify subject except where the release of such identifying information has no potential for constituting an unwarranted invasion of privacy and/or breach of confidentiality. And for all personally-identifiable information in the data at least one of following conditions applies:

- this information has been previously released to the public;
- this information describes public figures, where the data relates to their public roles or other non-sensitive subjects;
- a sufficient length of time has passed since the collection of the information so that the data can be considered "historic";
- all identified subjects have given explicit informed consent allowing the public release of the information in the dataset;
- all information was collected with an explicit statement concerning the public nature of the data, such as information collected for governmental regulatory purposes;
- or, for federal records (data created by a U.S. federal government agency or under a federal contract) only, all identified subjects are deceased and no federal statute explicitly restricts the release of the data

By clicking the "I agree" checkbox below, I confirm that I have read and understood each and every term set forth in the terms and conditions for the use of data and other materials found above, and I agree to be bound by all of such terms and conditions.

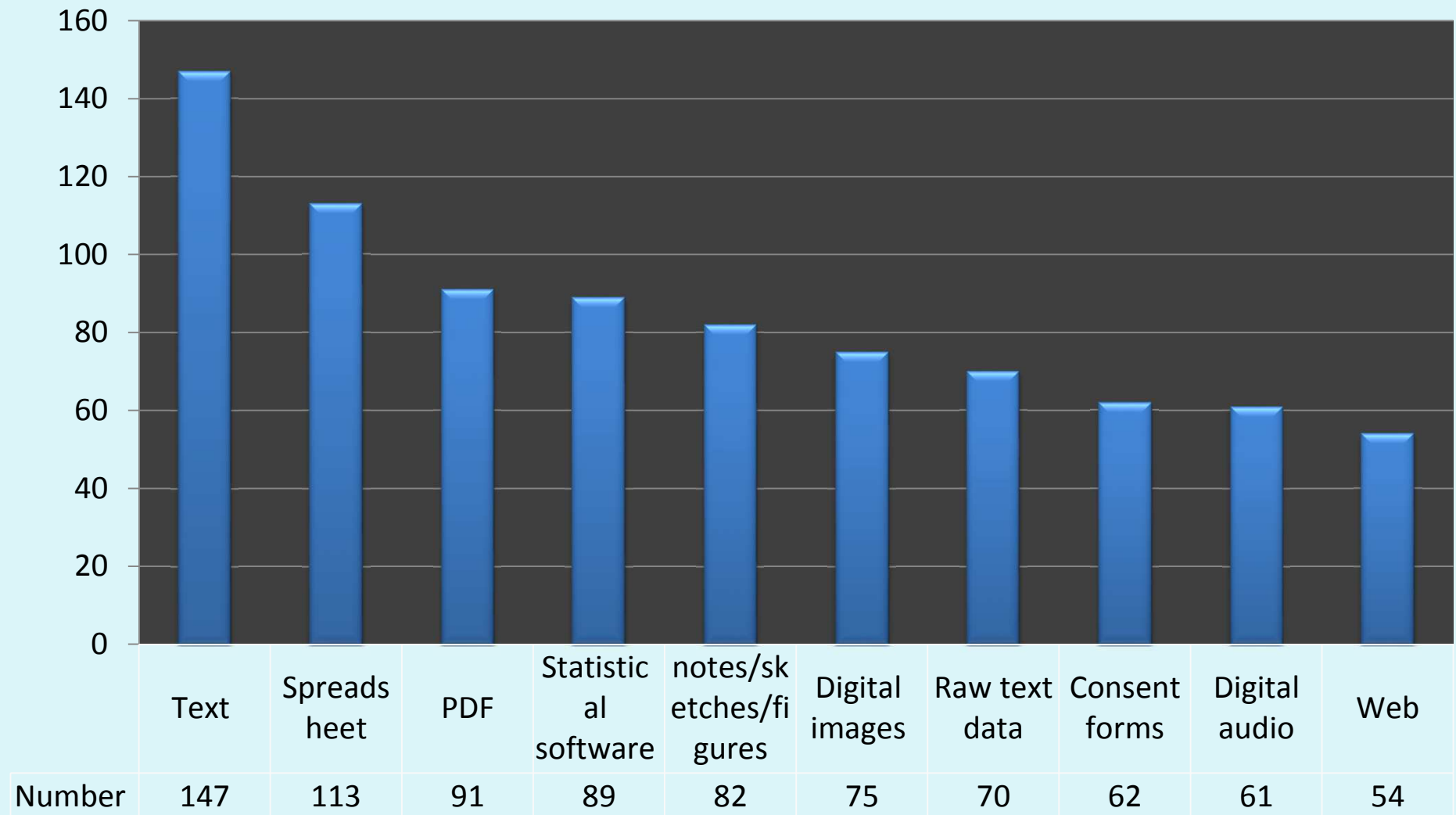
If I do not understand or agree to all of the terms and conditions, I must not use or download any data or other materials.

☐ I agree and accept these terms of use.

Continue

Cancel

Top 10 Research Data Formats



From the UNCG Faculty Research Data Support Needs Survey report,
October 2013

We aren't the only option

- Dryad
- figshare
- ICPSR
- ...and more!



How is it going?

- Outreach sessions offered?
 - 2013-2014 – 1 session
 - 2014-2015 – 5 sessions
 - 2015-2016 – 6 sessions
- Information requests received?
- Access RDM page?
- DMPs created?
- Data sets loaded?

Challenges

- Limited resources (both budgetary and personnel)
- Communication and publicity
- “It’s one more thing to do”
- Changing expectations/requirements for data management
- The Research Data Lifecycle



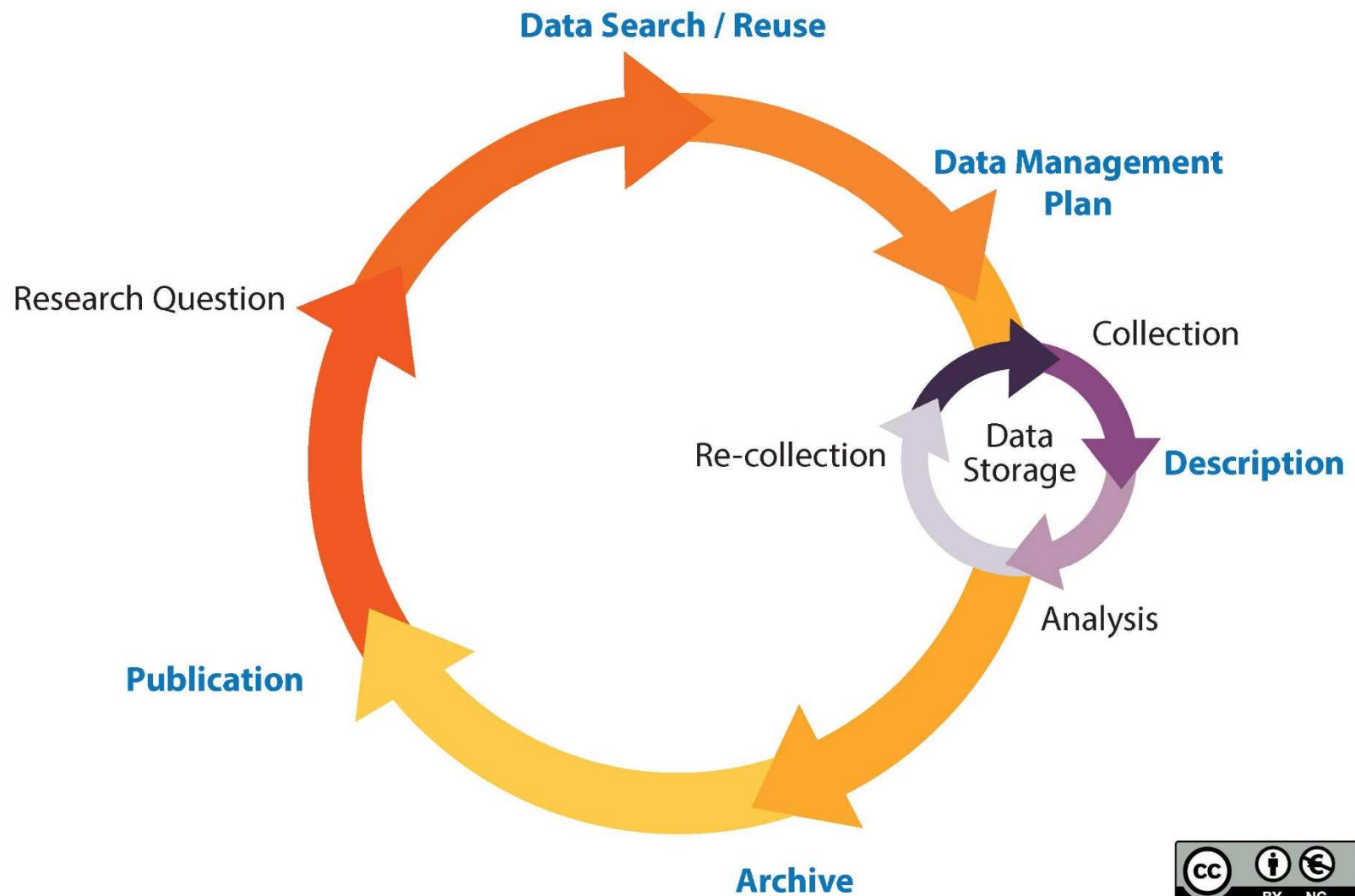
other materials.

☐ I agree and accept these terms of use.

Continue Cancel

A screenshot of a software dialog box. At the top, the text "other materials." is visible. Below it, there is a checkbox followed by the text "I agree and accept these terms of use." The checkbox is currently unchecked. The entire checkbox area is enclosed in a thick red rectangular border. At the bottom of the dialog box, there are two buttons: "Continue" on the left and "Cancel" on the right.

The Research Data Management Lifecycle



Value

- Strengthen relationships between Libraries, researchers, and scholarly communities
- Meet needs of campus constituencies
- Support new publishing/sharing models
- Demonstrate commitment to open access and the research data lifecycle



Looking forward

- Continue to follow developments in this area.
- Consider further extension of service offerings when budget allows.
- Publicize services to campus researchers and offer educational opportunities.

Photo by flickr user bengtham
([CC BY-NC-ND 2.0](#))



Thank you!

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Lynda Kellam

Data Services Librarian

lmkellam@uncg.edu



UNCG
University Libraries

UNCG Data Services Links

- NC DOCKS (Institutional Repository)
 - <http://libres.uncg.edu/ir/uncg/>
- Data management LibGuide
 - <http://uncg.libguides.com/RDM>
- UNCG Faculty Research Needs Survey Report
 - <http://libres.uncg.edu/ir/uncg/listing.aspx?id=16367>
- Scholarly Communications LibGuide
 - <http://uncg.libguides.com/scholarlycomm>
- Odum Institute at UNC Chapel Hill:
 - <http://www.odum.unc.edu/odum/home2.jsp>